

Haven't you always wanted to open up your Atari. Video Computer System (VCS) console and see what goes on minde? Don't do it—there are delocate electronic parts uside? Instead, let us take you miside your VCS, in this guided but through the hardware at the heart of Atari's electronic marks.

Shown below, stripped of its outer shell, is an Atari CX2600A console (the major difference between the CX2600 and the CX2600A is the placement of the difficulty select switches)

At the bottom right of the board is a silver-colored box which houses the RF modulator The RF (Radio Preguency) modulator translates the game computer's output into a signal which your TV set can receive. Your Atari game acts as a ministure TV station sending out a signal which your television recoives on the Channel 2 or Channel 3 from sonory. There why your Aters game console is registered with the Federal Communications Commission-it is a real transmitter and must meet government legal requirements. That also explains why there are two metal shielding boxes incorporated in the





### YOUR START VCS

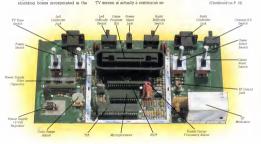
console design—the one over the RF modulator and a larger one which fits over the silver lines at the center of the console shown here. These boxes limit the console's broadcast signal peth to the antenna connection cable, preventing your unit from interfering with your neighbor's TV reception.

The moving picture you see on your TV screen is actually a continuous serias of individual still pictures created very rapidly by the Afair computer. Bach image is "drawn" by the computer, one line at item, 182 lines to the screen—the VCS creates 60 completes cond! The computer schaally does three cond? The computer schaally does those reaches, can be a time, every second? The computer schaally does the manage and sound, seeness what you read doing with your controllers, and determines how that affects the image for the next frame—then it creates that new frame and statis the process all

over agam.

The 'herve center' of the Atan VCS
unit is contained in the three black rectangular components in the center, below the Game Program slot These units
are integrated cursuits—shoun chips
designed to do the job of thousands of
transistors. The top one is called a RIOT
(Ram. Imput/Output, interval Thired deviol.) Its job is to read the information
fed into it by the control switches and
the revertibles.

The rectangular component in the middle is the microprocessor—the "brains" of the unit. The microprocessor



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> EDITOR Steve Maconstates

DESIGN DIRECTOR

CLUB DIRECTOR
Purker lerrell

### Atari Excitement Spreads From the Frozen Alps to Heated Middle East Competition

Pac-Man Arrives in Europe ... on Skis!

After winning the hearty of millions of Americans, Pec-Man and his ghostly goliblin friends picked up and headed for Europe First stop was Zermati. Switzerland, where Pac-Man made his entrance in typically deshing style skining down the Alins!

After conquering the slopes, the Yellow Fellow was off on a whirlwind four, ragging and sagging his way through Creece, Spain, Sweden, France, Italy Cermany, Holland, and the United Kingdom From there he headed back to the U.S., but he'll return to Europe in September for a fantastic international Pix-Man codest!





## Kuwait Couldn't Wait For DODGE'EM Championships

It was a hot Friday afternoon out on the sand at the beautiful Messibah Beach Chib—but the temperature cristide was nothing compared to the beated competition going on indoors, as players of all ages tested their skill in the

The game was Dodge Em, Game Vanaton #1. For 10 days before the competition, Atan units were set up at the club to let eager competitors practice their driving skills.

Finally, the big day arrived Out of 333 contestants who steered through the first round at skill level B, 39 made it with perfect scores. Then it was on to the championship round, at skill level A. The winner, Sultan Rajab Al Sha-

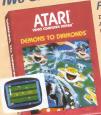


waic, racked up an impressive 983 points to walk away with the first prize—a color television, an Atan VCS, and five Game Program cartridges



PELE VISITS MIDEAST AS ATARI GOOD-WILL AMBASSADOR. Being guest of honor at the Middle East Societ Championships was the high point of Pale's tour of Abu Dhabi, Bahrain, Dubai, and the UAE, where he met with thousands of Atari fans

# Two Great New Atari Games



# For shooting stars...

DEMONS TO DIAMONDS A dazzling space-age shooting gallery game the whole family will love.

Here's a sharpshooting test of skill straight from the Beautifully animated demons march across your TV

screen, damay you to be them with a shot from your base base Arm carefully, though — you only want to lat. the deficing in your own color. Every time your isset beam strikes your opponent's target, the demon magscally transforms their unto a deadly skull, which starts

in the midst of this desirror parade, diamonds suddenly appear — precious indeed when you manage to

The action is fast and functor in this 21st Century hit one for a big point score markaman's dream conte-true carridge \$26 95 Six games One or two players

# ...and racing aces.

MATH GRAN PRIX

Learning arithmetic is child's play with this entertaining new cartridge. Now young Atan game fans can learn basic ambinence

while empying an extraining video auto race Players drive through a twisting 1808 course by suswering addition, subtraction, multiplication, and steet male powered curs toward special spots on the track: hoping to gain extra turns and extra spaces, and

trying to bump their opponents of the road in their MATH ORAN PRIX makes learning archimetic a terother treat for children 8 through 10 years old. keeping young players happily on the road to moth mastery

\$22.95 Nine games One or two players



Get DEMONS TO DIAMONDS and MATH GRAN PRIX as soon as they're released —order today! CALL TOLL FREE 1-800-345-8600 (PA Residents Call 1-800-662-5180)

# Abari News

"Atari Force" Arrives — Bonus Color DC Comics Included With Game Cartridges

Now, when you open specially marked Atan game cartridge boxes, you'll find a double helping of excitement—super video games and full-color DC como books starring Atan superherces The first cartridge to include a bonus

The that bar dudge for institute a buffering full-color de-page adventure takes place in the para 2001 in some either solution-page and the page and

What's she up to? And how will the diverse characters we meet become the tightly knit Atari Force? The answers are found in the second comic The Atan Porce, led by Commander Martin Champson, charge into action in a new series of DC Com-

book, packaged with Atari's August release, Berzerk

A third comic will appear later in 1982, to accompany the exciting new



# Sneak Peeks

Things are really jumping at Atari headquarters, with new projects happening everywhere you look. Here's a sampling of what we've learned about coming attractions.

### Home Video Games

More New Video Cames Added to '82 Schedule. When the year began, that announced an ambittous schedule — He was began to have VCS game cartradges by the ear power VCS game cartradges by the ear set of the country of t

controller packaged with the Game Program cartridge

Big News for Electronic Athletes. Attri game programmers have gone into training to produce a great new lineup of sports cartridges, "RealSports," with more detailed graphics and lifelike



sounds than ever before. Some are new versions of old favorities from the Game Program. Ibrary—some are games never before seen on the electronic screen. Whether you're a kicker, a spiker, a bunner, or a punter, there's good news coming from Atan in the months ahead.

### Coin Video Games

You'll Dig DIG DUG. The folks who brought the world Pac-Man have created a brand new personality-packed com video game which Atari has just started manufacturing and distributing

It's called Dig Dug, which is also the name of the hero, a dauntless little miner who digs tunnels through the underground video display, creating a maze as he tunnels

Continued on P. R.

# You Deserve An Atari Break Today



**McDonald's** 



The world's largest home video game manufacturer is teeming up with the world's largest restaurant chain to let folks 'Taste the Thrill of Atari at Mo-Donald's' with a spectacular nationwide contest From August 15 to October 15. McDonald's will be giving away over 12,000 Atan prizes-video name consoles and home computers worth over \$4 million - plus additional prizes of McDonald's food and drinks

Participating McDonald's restaurants the purchase of large sandwiches or specialty items from their menu. Each game piece will be based on an Atari video game -- Asteroids, Centipede. Missile Command, or Star Baiders and have a series of rub-off spots. If you can match food or Atan game prizes

#### Sneak Peeks (continued).

Dig Dug has two kinds of memorable enemies chasing him-Fygar, a fierce firebreathing dragon, along with Pooks, who looks like a giant tomato wearing sunglasses. If either one catches our hero, he's done for,

Dig Dug also has a few tricks up his sleeve, though He can tunnel beneath an underground boulder and bring it crashing down on his fee to earn hig points. He also has a pump which he can use to pump up the bad guys until

Playing Dig Dug is a fast-moving, hislarrous experience-and to add to the excitement, players can begin a new game at the same level they reached at the end of the previous game, challenging them to reach new heights of daring deep digging

without uncovering a "Zap" spot, you win. Details will be available at participating McDonald's

Prince will include annexymately 10.000 Atari Video Computer System contolet 1 500 Atari 400 and 800 Home Computers, and 200 full-tage Cabaret model Centroede coin video games For the grand prize, 50 deluxe home video packages will be given away each of which includes an Atan 5200 Advanced Video Entertainment System and cartridges, an Atan 800 Home

accessories, the tabletop Centinede com video game, and a big-screen Thanks to McDonald's and Atan, the

old-fashioned TV Dinner is being replaced by an exciting Video Dinner that could make you a winner

# New At The Clubhouse Store:

### Special Offers on Warlords and Game Center Organizer The Club has so many exciting new

stems specially created for loval Atan fans, we've expanded the Clubhouse Store into a three-page special section beginning on page 14 of Atan Age.

Many of the items have been created. exclusively for The Atan Club-a TIMEX" watch with a handsome Atan design, unique Atan lewelry, and an available only to Club members.

The Clubbouse Store also has special money-saving offers on cartridges, controllers, and accessories. To help members get in on the frantic fourplayer action of Warlords and five other Atan games, the Store is offering an extra set of paddle controllers-regularly sold for \$21.95 -- for only \$10 with the purchase of Warlords through the Club

Another special offer features the brand new Home Game Center organger. This convenient unit holds the console, controllers, 27 cartridges, and instruction books-the complete Atan VCS set neatly stored in a single good-

looking unit. As a special introductory offer, anyone who purchases a Home

Game Center through the Clubhouse Store will receive an official Atari Club mug (shown on page 17) free of charge The fastest way to order is by

phone -- 1-800-345-8600 as the toll-free number to call with credit card orders (PA residents can call 1-800-662-6180). this issue of Atari Age on page 15.



The new Atan Come Cepter organizer holds out

**New Service System** 

# Speeds Atari Video Game Repairs

Most people use their Atan VCS for years without difficulties. However, for those occasions when problems do occur, Atan has set up a new two-part nationwide service system to make re-

pairs as quick and relations as possible. The ATMR SERVICE Conners Fac-The ATMR SERVICE Conners Facterior and the service of the service of the tensors to bring their medianes in for repair inght in their own neighborhoods. There are now over 700 Atturtational does service centers across the country, and this number is expected to reach 1,000 by the end of 1862. The ATMR SERVICE Centers ofter fast searres—according to jost Ebob, head of Thimacound time for local repairs is usually 24 to 48 hours.

Aları also has four Regional Service Centiers, each covering a specific group of states. By calling the toll-free number of their regional center, Atari owners can explain any service problems and get directrices to their nearest ATARI SERVICE Center for well-in repair, or receive the proper address to send in their unit



Western Region
Residents of AZ, CO, ID, MT, NV, NM, OR, UT, WA, and WY can call 1-800-538-1604 (CA residents call 1-800-672-148)), toll-free.

North Central Region Residents of IN, IA, KA, KY, MI, MN, MO, NB, ND, OH, SD, and WI can call 1-800-323-4139 (IL residents call 1-800-942-7370), toll-free

Southeastern/Central Region Residents of AL, AK, FL, GA, LA, MS, NC, OK, SC, and TN can call 1-800-433-5140 (TX residents call 1-800-772-8462), toll free.

Northeastern Region Residents of CT, DE, ME, MD, MA, NH, NY, PA, Rt, VA, and WV can call 1-800-526-3906 toll free (NJ residents call 1-800-942-7794)



Need Atan service? Just call the toll-free number of your Regional Service Center to get the address of your local ATARI SERVICE Pactory Authorized representative.

### EPROM Report

Each of the three new game cartridge releases this summer illustrates a different major trend in home video gaming. The first, MATH GRAN PRIX, is an educational cartridge which makes it fun for kolds to learn artitimetic People

The fixes. MMTH GRAN PRIX, is an educational extrading winch makes it has for lock to learn arithmetic People who don't just you've lock openes are sometimes amazed to find 8-year-olds playra with the Alam system. Most video gainest plass, though, incove at least one against plass, though, incove at least one described and the state of the s



DEMONS TO DIAMONDS is one of the new generation of cartridges which take popular concepts from early video games and update them with more complex graphics, sound, and gameplay in Demons, players shoot at rows of targets moving from side to side However, the new game features serval new vinities—finely detailed animation as the smalling demans dance across the screen, insverement in both directions at once, and the challenge of picking out only your own targets and avoiding your opposers in the fast-moving shooting callery display It's a real sharpshooting test, and a great open for head-to-bead connection.

The August release from Atari is the third major arcade game to appear home cartridge version this year — BERZERK. The game puts the player as mase full of hostlier obest, led by what foots like one of those round, smilling bappy faces—but in reality, that's the smister Evil Otto, the most ferconce exterminator in the mase.

Adapting coin video games to home cartridge versions is not the easiest job in the whole world. An arcade machine may offer 6 to 12 times the computer memory capacity of a home came cartridge. By reaching deep in their bag of technical tricks, though, Atan programmers have been turning out home video game adaptations which are remarkably close to the popular arcade versions-and Berzerk is another great adaptation. Changing mazes as your little man runs from room to room-the robots' visors rotating as they track you down-laser bullets firing and reaching their target-they're all just the way you'd find them at the arcade. But now, thanks to Atari ingeniity, we can have Berzerk's one-of-a-kind action.

# Mana Non played

# WARLORDS

Tysbod

### Defend king and castle in this electronic battle royal. Four princely warlords appear, each

with a castle protecting his corner of the territory, and fireballs and hightning balls to hurl at his opponents The battle begins! Contestants struggle to break through the enemy for-

tresses, while shielding their own walls. fensive armaments

An opening! A carefully aimed shot recochets off the far wall, penetrates the castle defenses and, with a blinding flash, the first Warlord vanishes. Only three left—on with the battle!

This is WARLORDS, an incredibly fast-moving game of skill, strategy, and cruck reflexes. It lets up to 4 players emoy breakneck Breakout-style action at once -- all you need are 3 friends and an extra set of paddle controllers.

The Warlords playfield includes four castles with walls which are destroyed. like the walls in Breakout. Players move their shields around the walls of the castle with their paddle controllers. protecting themselves from oncoming shots and directing the ball toward their opponents. When the defensive wall has been chipped away and openings appear, a well-placed shot will hit the Warlord himself and eliminate him. from the battle. It takes 5 victorious hattles to win the war

There are 23 Warlords game variations in all, including selections for-BALL SPEED: Choose fireball (slow-

er) or habtning ball (faster). NUMBERS OF PLAYERS: One to four people can defend individual castles. and there's a doubles variation which lets two players defend two castles each Any castle not represented by a human player is defended by a VCS-

SHIELD PLAY, The ball will bounce off shields in Ricochet variations. In



Catch variations, players can catch the ball, aum it, then release it

into notous Atan action at once It's quaranteed to bring any party to life, with up to four players locked in furious head-to-head competition

### SKILLBUILDERS

Here are some tips for improving your Warlords playing performance, straight from Carla Meninsky, the Atari programmer who created the game

· The ball will travel either straight side to side, up or down, or at a 48° diagonal angle-there are no other possible paths. Knowing this, you can plan shots to rebound predictably, pool-table-style, off the side walls

· Players facing each other top and bottom are more denderous to each other than those placed side to side or crossways on the field. Therefore, position the best players facing each other top to bottom, to keep things even.

· It is much easier to destroy a VCS-

controlled opponent than a human one This might lead you to concentrate your attack on your human opponents first eliminating them from the game while your own defenses are strongest. However, remember the strategic importance of the computer's shield even after the Warlord it protected is destroved. These shields continue to move along mvisibly following the same patterns they used while they were visible. Hitting one of these invisible shields will deflect the ball-plan your shot well, and it could be a terrific surprise to your remaining opponents! By eliminating a computer foe first, you create a powerful weapon for attacking

human opponents

# Special Offer ... SAVE \$12

Get a second set of paddle controllers and get in on all the thrilling 4-player action of WARLORDS, BREAKOUT OLYMPICS

Order WARLORDS today from The Atari Club and receive an extra set of paddle





# Codebreaker!

Secret codes hold the key to espionage, international intrigue—and sometimes even buried treasure! The solution to this puzzling 165-year-old secret message could be worth \$20 million to the successful codebreaker!

Shortock Holmes spread the papers across the table and threw hemself into-hours of intersee calculation. He puzzled hours of intersee calculation. He puzzled over the mysterious dancing stack figures, 'covering sheet after schoot of paper with figures and letters. . Finally he sprang from the chear with a cry of the property of the property of the paper of the papers of the pap

# ፟ጜጜጜጜጜጜጜጜ ጞጜጜጜዹጚጜጜጜጜ

He had deduced that the little meawere actually former in a code—each different stance representing another inter, and the little flags held by some indocating the end of a word. By cracking this impenious code, the world's createst detective unraveled the elisive socret of "The Adventure of the Dancing Men" and brought a suisster murdeer to justice.

The world of codes as a fearmang area of mystery and mirgas of the thousands of years, men have traed to hide their dukes secrets by myeeting and mirgas of their dukes occess by myeeting or meastons. But as Holmes so wasniy remarks. What one man can invest another can discover: It is the manother can discover: It is the major of the codebreaker, or cryptanalyst to dempher secret messages, bring carefully hidden plans and actions to fluid—effect with directions to highlit—effect with directions and mirror of the code of the code

#### The Zimmerman Telegram Codebreaking has changed the course

of history many times. In fact, a skilled team of British codebreakers played a decisive role in U.S. history, when a secret message they decoded drove the reluctant Americans into World

It was early in 1917—Europe had been at war for three years, but the American people did not want to get involved in the fighting.

Then British Intelligence discovered as cable sent by Alfield Zamesterna, Germany's foreign minister, to the Germany's foreign minister, to the German Ambassedure in the U.S. The cable was written in a top-secret German diplication code.—but it was a code disming sent membra of paintsking about Now they worked around the clock and finally succeeded in decephering the estimated on the message they had uncovered was a bombstell.

In the cable, Zammerman instructed his ambassador to offer the Mexican government a deal if the US entered the war, Germany wanted to arrange a multirary ellamore with Mexico Mexico would fight against the US. In return, the Germans would give Texas, New Mexico, and Arzona to Mexico when

The British passed this explosive document on to the U.S. government and waited for the reaction. They didn't have long to wait.

On March I, 1817 has 'secret' Germanessage was published in newpapers across the country—and the public was famous! By April 2, Presdeat Wilson asked the Congress for a formal declaration of war against the Imperial German Covernment. The Yanks were coming!"—thanks to-British codebreaking ingenuity.

04 290 436 664 582 150 251 284 306 231 124 211

275-346 201 206 86 36 219 320 629 640 66 326 19 46 122 85 216 264 919 861 326 985/

223 64 232 431 960 50 29 61 216 321, 603 14 612 61 360 36 51 62 194 78 60 200 214

370 11 101,306 139 169 17,33 66 206 160 146 1 94 73 416 316 76 28 500,536 356 117 136 219 27 176 130 10 460 26 485 18 436 55 66

62 115 57 103,952 73 00 1317 471 540 256 121 890 246 34 150 99 566 644 13 130 63 29,812 2160 1780 28 35 16 21 136 522 15 26 170,68 30 44 13 131 147,481 195 280 37 132 133 6 140 8 32 30 5 25 15 44 14 100 406 650 50 65 114 1530 82 569 9 102 38 410 60 71 215 738 905 171 2 5 32 11 145

85 52 86 16 80, 121 67 95 122 216 549 36 11 201 77 564, 218 00, 807 869 206 154 211 10 96 34, 119 55 216 119, 71 216 1194 1496 1617 51 38 210 36 3 19 540 232 22 141 617 64 290 80 46 207, 411, 150 29 38 46 172 4

56.86 54 43 212 107 96 314 964 1065 323 426 601 203 124 96

216 614 2906 664 820 2 301 112 176 213 71 67 90 202 25 10 2

485 225 40

### A Meeting in Casablanca

Coded messages which fall into the wrong hands—like the Zimmerman Thlegram—can defeat the plans of foreign agents. Sometimes, though, a message which gets into the right hands can still go wrong.

Take the story of a Nazi spy in Soain

during World War II. He had discovered that Roosevelt and Churchill were planning a secret meeting in Casablanca This was viral information—the Albed leaders would be vulnerable to German attack at this North African meeting relieved.

The spy sent an urgent coded message to Nazi headquarters in Berlin. However, when the Naus despited the message, hey made a cruzial error than message, they made a cruzial error man, histend of reading 'Casabilance' as the name of a North African city, they hook it to be two Spanish words — 'Casa' meaning 'house' and 'Dalnan' meening white.' They assumed the meeting was going to occur at the White House, but they certainly couldn't stake. They would be they containly couldn't stake they would be staked to they certainly couldn't stake they would be staked to the contained the contained they would be staked to the contained the contained they would be staked to the contained the

through a happy accident

### The Coded Key To a \$20 Million Treasure

One of the most untraguing of instory's unbroken codes is now nearly 168 years old and still unsolved, despite for expain efforts by generations of expert codebreakors. The reason for their intensit is easy to understand—the code holds the key to a buried treasure worth \$20 insilton land when you learn the story of this unfound firtue, you may want to jour best reason—hunting any want to jour best reason—hunting

The mystery begins in 1817, and the man at the heart of it is Thomas Jefferson Beale, who left his Virginia home with a party of men to built wild animals

in the West. What they found on their expedition was pold-an engringus deposit about 250 miles north of Santa Fe. The party spent 18 months digging, then returned to Virginia to conceal their newfound wealth Beale left a locked iron box with a trusted friend an innkeeper named Robert Morris, and left once more for the West Morns received a single letter from Beale two months later, posted from St. Louis, telling the makeeper that the box contained paners which would be 'unintelligible continued, had been left with a friend in St. Louis, and was to be delivered to Morris in time.

Beale then disappeared—be was never seen or heard from sgam, and the promised "key" never strived Morris wated fasthfully for 20 years before opening the seeled box. In it has found three sets of numbers, which turned out to be coded messages. Without the "key" to the code which Beale had promised, theophy, Morris could not make serise cut of the garbled frames.

Morns held on to the three coded messages for nearly two decades before turning them over to James Ward, a weelthy gentleman who devoted months to singleminded efforts at deciphering Beale's message. Finally, he broke the code for Cipher Number Two-and what a story it told!

"I have deposited in the County of Bedford about four miles from Buford's Beale had written, "the following articles belonging wintly to the parties whose names are given in number three herewith The first deposit consisted of ten hundred and fourteen normals of gold and thirty eight hundred and twolve nounde of silver denosited Nov eighteen nineteen. The second was made Dec eighteen twenty one and consisted of nineteen hundred and seven bounds of gold and eachty each of silver, also sewels obtained in St Lonis in exchange to save transportation and valued at thirteen hundred dollars ... Paper number one describes the exact locality of the vault so that no difficulty will be had in find-

mg it." No difficulty indeed—if the key to the code was known Beale's coding method was deviliably simple, yet virtually uncrackable by standard code-breaking means. The code used to encipher Message Number Two, which will be also the Declaration of Independence and the Declaration of Independence Beale beat on the Declaration of Independence and the Independence of Two Index on the Property of the Index of the Index of the Index of the Index of Ind

the Declaration which began with the letter he needed

Flow do you break a code constructed in this way? It and samply a matter of finding out which number corresponds to each fitted in the key? seponds to each fitted in the key? The construction of the constru

So far no one has cracked the perplexing Message Nimber One—but not fer lack of trying, Cryptanajtrical experts, computer scientists, even top codebreakers from the CIA and the Notional Security Agency have taken a crack et it, along with doors of amiscrack et it, along with doors of office remains. As you can see from the decode itself is probably not all that difficult—once you find Beele's mysterious key!

Think you can figure it out? We've reprinted the complete text of Beale's first cupier at the top of page 12. A little skill, a little luck, and you could become the weelthest codebreaker of all time!



# the Clubhouse Store

### Welcome to your store ...

If you're an Atari fan, you've come to the right place! The Clubhouse Store has all the terrific Atari game cartridges and accessories (see the checklist on page 19) ... and lots more! We've got things to wear-to play with-to hang in your room or bring to the beach. And it's all easy to order-sust send in the order form on page 15 of Atan Age, or call us TOLL FREE at 1-800-345-8600 with your credit card order (PA residents call 1-800-662-5180).

# I LOVE STARIS





Plac Shows here actual now Available only from The Atari Chal-



Pieces Earriage: The Atan logo in 24K Available only from The Atari Club!

It's Atari Time!

Smoot new and available only though the Chibbrase Sune a sharp-looking TIMEX digital wells) with the Alian name and loop trouble

Dwo Code ALT \$34.95 Available only from The Atast Clob!



Super Sports Walled A lightweight from wallet specially designed for sports-minded Atan players. It's matchine washable with

hem Code AN (Tax) \$9.50 hem Code AN (Burgandy) \$9.50 Available only from The Atari Clab!



No Sweet! Burn Borg set your heart out 'These off call Aten headbends and wristlands are for Azar. Club mambers only Perfect for teems, jogging buy

Available only from The Atasi Citable

Tops in Atasi Africe. Forget these alligator shorts—

hem Code A48 \$11.00 Available only from The Atasi Citib!



Available only from The Atani Clab!

T-Shiets for Bet Shets. Attention all Asteroids and Monde Congrand Seas-Flexas specify than code, strip, color, and use when orderung

Kateroida Youth Tean Code A12 \$6.90 Acult Item Code A14 \$6.95 Missila Command

They Chief Like to play your Aten game esting on the floor, or as bod? Here's the perfect play tony for you! The Asian VCS councie fits perfectly on this stoody tony, with follows and as presentable design—the estimator Pec Man con-

Item Gode AZ7 \$5.95 Magnificent Perfect for your or rode ben Code A36 (Single Mag) \$3.95 ben Code A36 (Ser of 4 mags) \$11.95 Available only from The Atari Cith!

SEPS SHOULD HER

Sticker It! On your our humper hitse lender your notebook your

Item Code ASS (Set of xxx) \$3.55 Available only from The Atazi Cinb!



Keys to Success. Carry your keys with class—choose your favorne video game em-bless in a scratchproof crystable dome on a \$2.00

Dun-Mark 50.50 Iren Ovde Alfi

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### SCREEN SCRAMBLE SOLUTION

### Inside Your Atari VCS (continued)

reads the information contained in the Game Program cartridge to learn the rules with the information supplied by the RIOT about switch settings and joystick activity. Based on this combination of data, it determines the position of up to six different elements at once-the computer labels these functions as Player 1, Player 2, Missile 1, Missile 2, Ball, and Playfield.

Of course, each of these elements takes on a different shape and function in each Atan game. In Combat, for example, Players 1 and 2 are the individual tanks or planes. Missiles I and 2 are their shots, and the maze used in several variations is controlled by the playfield function. In Pac-Man, on the other hand. Pac-Man himself is Player 1 and all four phosts are controlled by the Player 2 function. That's why the ghosts seem to flicker-they actually are not all on the acreen at the same time! The computer can only create one at a time, so it alternates, first displaying one, then another, then another, then the fourth, all at that fast 60 images per second rate. At that speed, our eves see them all at once, but the image appears to flicker. That's okay, though-we all know that ghosts are flickering, elusive things.

The third integrated circuit used in the VCS is called the TIA (Television Interface Adaptor) This is Atari's "top secret" component, designed exclugively for use in the VCS to create the unit's dramatic sound and graphics based on the electronic instructions provided by the microprocessor. The electronic circuitry in the TIA is equivalent to 10 000 individual transistors, yet it is small enough to fit comfortably on the face of a dime.

SKILL GALLERY

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Circus ATARIP C12

☐ Maze Craze\*\* C23

One last interesting tidbit about the TIA's function is the fact that it can actually create not one sound at a time, but two Many of the extraordinary game sounds we enjoy are actually combinations of two different sounds produced simultaneously A "band" and a distorted "fuzz" sound, when played together, reach our ears as a convincingly thunderous exploding missile, while the sound of cheering after a coal in Pele's Somer imitates a roaming crowd by neatly combining a rising and falling tone with a steady "hiss" to produce a dramatic sound effect.



Here are the answers to the puzzle which appeared in the last issue of Atari Age

Secret Message: 'Club members will find sneak peeks : at Berzerk and Demons in the next Alan Age magazine '



How many of these Atari Game Program cartridges assense de una have in unia collection?

and accessories do you have in your confection.			
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### See Shore Puzzle

A not-so-quiet day at the beach!

The seaside has been invaded by characters and objects from 23 different Atan games—
how many of them can you identify?

Answers in the next issue of ATABL AGE.